

letterpress printing, screen printing, roller coating, spray printing and litho printing.		printing, roller coating, spray printing, and litho printing.
15. The process for incorporating at least one electronic element in the manufacture of a plastic card as recited in claim 1, wherein said at least one electronic element is a micro-chip and an associated circuit board antenna or an associated wire antenna.	1987 Oakwood Series 6 Brochure	“micro-chip and an associated circuit board antenna or an associated wire antenna” – Sharinn Ex. 10, OS6B at 4, <u>see</u> text under heading “Machine Reading Applications”. <i>This reference fails to disclose a process as recited in claim 1, “wherein electronic element is a micro-chip and an associated circuit board antenna.”</i>
16. The process for incorporating at least one electronic element in the manufacture of a plastic card as recited in claim 1, wherein said at least one electronic element is a read-write integrated chip and an associated antenna.	1987 Oakwood Series 6 Brochure	“read/write integrated chip and an associated antenna” – Sharinn Ex. 10, OS6B at 4, <u>see</u> text under heading “Machine Reading Applications”. <i>This reference fails to disclose a process as recited in claim 1, “wherein electronic element is a read/write chip and an associated antenna.”</i>

Invalidity Claim Chart
in Support of
Oberthur's Summary Judgment Motion for Invalidity

U.S. Pat. No. 6,214,155

- Reference Key:**
- 1987 Oakwood Series 6 Brochure ("OS6B")
 - 1987 Oakwood Sales Brochure ("OSB")
 - 1991 Oakwood Series 6 Instruction Manual ("OIM")

<p style="text-align: center;"><u>Claims</u></p> <p>(missing claim elements are highlighted in green)</p>	<p style="text-align: center;"><u>Prior Art</u></p>	<p style="text-align: center;"><u>Application of Prior Art</u></p> <p>(missing claim elements are highlighted in green)</p>
<p>1. <i>I process for incorporating at least one electronic element in the manufacture of a plastic card comprising the steps of:</i></p>	<p>1987 Oakwood Series 6 Brochure</p>	<p>"electronic element" – inductive codings or microchip (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration and text under heading "Machine Reading Applications").</p> <p><i>This reference does not disclose an electronic element.</i></p> <p>See the '207 patent, claim 1, preamble for explanation.</p> <p><i>This reference does not teach how to incorporate an electronic element in the manufacture of a plastic card.</i></p> <ul style="list-style-type: none"> • See '207 patent, claim 1.
<p><i>(a) providing first and second plastic core sheets;</i></p>	<p>1987 Oakwood Series 6 Brochure</p>	<p>"first and second plastic core sheets" – second opaque plastic layer and substrate beneath inductive codings (Sharinn Ex.10, OS6B at 4, <u>see</u> illustration).</p>
<p><i>(b) positioning said at least one electronic element in the absence of a non-electronic carrier directly between said first and second plastic core</i></p>	<p>1987 Oakwood Series 6 Brochure</p>	<p>"positioning ..." – inductive codings are illustrated as being positioned between second opaque plastic layer and substrate (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration).</p>

<p><i>sheets to form a core, said plastic core sheets defining a pair of inner and outer surfaces of said core;</i></p>	<p>1987 Oakwood Series 6 Brochure</p>	<p>“in the absence of a non-electronic carrier” – inductive codings are illustrated with no protection (Sharinn Ex. 10, OS6B at 4, <u>see illustration</u>).</p> <p><i>This reference does not teach positioning an electronic element “in the absence of a non-electronic carrier”</i></p> <ul style="list-style-type: none"> • There is no evidence that the illustration cited in this reference does not include a cavity or protective layer for protecting the inductive codings from heat and pressure during the lamination process. • The conclusory statements provided by Oberthur are not sufficient to show that this illustration discloses this claim element. • The picture alone is insufficient to enable a person having ordinary skill in the art to laminate a card in such a way.
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	1987 Oakwood Series 6 Brochure	<p>“directly” – inductive codings are in immediate physical contact with second opaque plastic layer and substrate (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration).</p> <p><i><u>This reference also does not teach positioning an electronic element “directly between said first and second plastic core sheets”</u></i></p> <ul style="list-style-type: none"> • Again, there is no evidence to show that the illustration cited in this reference positions the inductive codings directly between plastic core sheets. • The conclusory statements provided by Oberthur are not sufficient to show that this illustration discloses this claim element. • The picture alone is insufficient to enable a person having ordinary skill in the art to laminate a card in such a way.
	1987 Oakwood Series 6 Brochure	<p>“core” – second opaque plastic layer, inductive codings and substrate form the “core”(Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration).</p>
	1987 Oakwood Series 6 Brochure	<p>“a pair of inner and outer surfaces of said core” – outside surface of second opaque plastic layer and outside surface of substrate are illustrated (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration).</p>

<p>incorporating at least one electronic element in the manufacture of a plastic card as recited in claim 1, wherein said laminator apparatus has first and second laminating plates, at least one of said first and second laminating plates having a matte finish for creating a textured surface on at least one of said outer surfaces of said core</p>	<p>6 Brochure</p>	<p>card sets to be laminated are inserted between stainless steel laminating plates and inserted into the machine on the laminating tray.” (Sharinn Ex. 12, OS6B at 3).</p> <p>This reference does not disclose the finish of laminating plates nor does it teach the texture of the surface of the resulting laminated core</p> <ul style="list-style-type: none"> • See ‘207 patent, claim 2.
<p>4. The process for incorporating at least one electronic element in the manufacture of a plastic card as recited in claim 1, wherein said first and second plastic core sheets are made from a material selected from the group consisting of polyvinyl chloride, polyester, and acrylonitrile-butadiene-styrene, each of said sheets having a thickness in the range of 0.007 to 0.024 inch</p>	<p>1987 Oakwood Series 6 Brochure</p>	<p>“polyvinyl chloride” – second opaque plastic layer and substrate beneath inductive codings are made of plastic (P.V.C.) (Sharinn Ex. 10, OS6B at 3, 4, see illustration).</p> <p>This reference fails to teach a process where the plastic core sheets are made of a material selected from the group consisting of polyvinyl chloride, polyester, and acrylonitrile-butadiene</p> <p>This reference fails to disclose a thickness range of plastic sheets to be used</p> <ul style="list-style-type: none"> • See ‘207 patent, claim 4.
<p>6. The process for incorporating at least one electronic element in the manufacture of a plastic card as recited in claim 1, wherein said second pressure is greater than said first pressure.</p>	<p>1987 Oakwood Sales Brochure</p>	<p>“said second pressure is greater than said first pressure” – “P.V.C. Press.” curve of the “Typical Lamination Cycles” diagram (Sharinn Ex. 11, OSB at 6, see diagram).</p>
<p>7. The process for incorporating at least one electronic element in the manufacture of a plastic card as recited in claim 6, wherein said second pressure is at least approximately 25% greater than said first pressure</p>	<p>1987 Oakwood Sales Brochure</p>	<p>“said second pressure is at least approximately 25% greater than said first pressure” – “P.V.C. Press.” curve of the “Typical Lamination Cycles” diagram (Sharinn Ex. 11, OSB at 6, see diagram).</p> <p>This reference fails to indicate whether the second pressure is at least 25% greater</p>

		<p><i>than said first pressure</i></p> <ul style="list-style-type: none"> • See '207 patent, claim 7.
8. The process for incorporating at least one electronic element in the manufacture of a plastic card as recited in claim 1, wherein said core is heated in step (c)(i) to a temperature in the range of 275.degrees. F. to 400.degrees. F. <i>and said first period of time is at least five (5) minutes</i>	1991 Oakwood Instruction Manual	"temperature in the range of 275.degrees. F. to 400.degrees. F." – unpatentable modification of prior art temperatures ("LAMINATING TEMPERATURE 90 – 200 DEGREES C" (Sharinn Ex. 12,OIM at 6, 3.3B)).
	1987 Oakwood Sales Brochure	<p>"P.V.C. Temp." curve of the "Typical Lamination Cycles" diagram and horizontal axis of diagram indicating time in minutes ("Mins") (Sharinn Ex. 11, OSB at 6, see diagram).</p> <p><i>This reference fails to identify the length of time at which the temperature is held</i></p> <ul style="list-style-type: none"> • See '207 patent, claim 8.
11. The process for incorporating at least one electronic element in the manufacture of a plastic card as recited in claim 1, <i>wherein said at least one electronic element is a micro-chip and an associated wire antenna</i>	1987 Oakwood Sales Brochure	<p>"micro-chip and an associated wire antenna" – Sharinn Ex. 10,OS6B at 4, see text under heading "Machine Reading Applications".</p> <p><i>This reference fails to disclose a process as recited in claim 1, "wherein electronic element is a micro-chip and an associated wire antenna."</i></p>
12. The process for incorporating at least one electronic element in the manufacture of a plastic card as recited in claim 1, <i>wherein said at least one electronic element is a microchip and an associated circuit board antenna</i>	1987 Oakwood Series 6 Brochure	<p>"micro-chip and an associated circuit board antenna" – Sharinn Ex. 10, OS6B at 4, <u>see</u> text under heading "Machine Reading Applications".</p> <p><i>This reference fails to disclose a process as recited in claim 1, "wherein electronic element is a micro-chip and an associated circuit board antenna."</i></p>
13. The process for incorporating at least one electronic element in the manufacture of a plastic card as recited in claim 1, <i>wherein said at least one electronic</i>	1987 Oakwood Series 6 Brochure	<p>"read/write integrated chip and an associated antenna" – Sharinn Ex. 10, OS6B at 4, <u>see</u> text under heading "Machine Reading Applications".</p> <p><i>This reference fails to disclose a process as</i></p>

element is a read/write integrated chip and an associated antenna.		reached in claim 1, "wherein electronic element is a read/write chip and an associated antenna."
14. A plastic card constructed in accordance with claim 1.	1987 Oakwood Series 6 Brochure	"plastic card" – card set illustrated in OS6B on p. 4. (Sharinn Ex. 10).
15. A hot lamination process for the manufacture of plastic cards, said process comprising the steps of:	1987 Oakwood Sales Brochure	"A hot lamination process for the manufacture of plastic cards" – "Oakwood has developed a unique lamination cycle for the highest quality bank and credit card manufacturing producing a well laminated structure The temperature of all platens is controlled individually to provide uniform heating throughout the press." (Sharinn Ex. 11, OSB at 6).
(a) providing first and second plastic core sheets;	1987 Oakwood Series 6 Brochure	"first and second plastic core sheets" - second opaque plastic layer and substrate beneath inductive codings (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration).
(b) positioning at least one electronic element in the absence of a non-electronic, barrier directly between said first and second plastic core sheets to form a layered core;	1987 Oakwood Series 6 Brochure	"positioning ..." – inductive coils are illustrated as being positioned between second opaque plastic layer and substrate (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration).
	1987 Oakwood Series 6 Brochure	<p>"electronic element" – inductive codings or microchip (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration and text under heading "Machine Reading Applications").</p> <p><u>This reference does not disclose an electronic element.</u></p> <ul style="list-style-type: none"> • See the '207 patent, claim 1, preamble for explanation.

	1987 Oakwood Series 6 Brochure	<p>“in the absence of a non-electronic carrier” – inductive codings are illustrated with no protection (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration).</p> <p><i>This reference does not teach positioning an electronic element “in the absence of a non-electronic carrier.”</i></p> <ul style="list-style-type: none">• There is no evidence that the illustration cited in this reference does not include a cavity or protective layer for protecting the inductive codings from heat and pressure during the lamination process.• The conclusory statements provided by Oberthur are not sufficient to show that this illustration discloses this claim element.• The picture alone is insufficient to enable a person having ordinary skill in the art to laminate a card in such a way.
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(c) positioning said core in a laminator apparatus, and subjecting said core to a heat and pressure cycle, said heat and pressure cycle comprising the steps of:	1987 Oakwood Series 6 Brochure	<p>“directly” – inductive coils are in immediate physical contact with second opaque plastic layer and substrate (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration).</p> <p><i>This reference also does not teach positioning an electronic element “directly between said first and second plastic core sheets”</i></p> <ul style="list-style-type: none"> • Again, there is no evidence to show that the illustration cited in this reference positions the inductive codings directly between plastic core sheets. • The conclusory statements provided by Oberthur are not sufficient to show that this illustration discloses this claim element. • The picture alone is insufficient to enable a person having ordinary skill in the art to laminate a card in such a way.
	1987 Oakwood Series 6 Brochure	<p>“layered core” – second opaque plastic layer, inductive codings and substrate form the “core” (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration).</p>
	1987 Oakwood Series 6 Brochure	<p>“positioning said core in a laminator apparatus” – second opaque plastic layer, inductive codings and substrate can be positioned in the Series 6 laminator: “Many of the more sophisticated cards are made possible due only to the flexibility of the heat and pressure system which is a major feature of the Series 6 Laminators.” (Sharinn Ex. 10, OS6B at 3, 4 <u>see</u> illustration).</p>

	1987 Oakwood Series 6 Brochure	“heat and pressure cycle” – “heat and pressure are applied” to second opaque plastic layer, inductive codings and substrate (Sharinn Ex. 10, OS6B at 3).
<i>(i) heating said core in said laminator, in the presence of a minimal first ram pressure, to a temperature which causes controlled flow of said plastic which makes up said first and second plastic core sheets;</i>	1987 Oakwood Sales Brochure	“heating said core” – “P.V.C. Temp.” curve of the “Typical Lamination Cycles” diagram (Sharinn Ex. 11, OSB at 6, see diagram).
	1987 Oakwood Sales Brochure	“minimal first ram pressure” – Sharinn Ex. 11, OSB at 6, <u>see</u> initial “P.V.C. Press.” ramp up in illustration.
	1991 Oakwood Instruction Manual	Sharinn Ex. 12, OIM at 6 (“Low pressure is applied to the material during the heating stage to achieve lamination.”). “controlled flow of said plastic” – “Actual lamination will take place when the material has reached a molten stage at very low pressures.” (Sharinn Ex. 12, OIM at 6).
<i>(ii) applying a second pressure uniformly across said core for encapsulating said at least one electronic element within said controlled flow plastic;</i>	1987 Oakwood Sales Brochure	<p>“applying a second pressure” – “P.V.C. Press.” curve of the “Typical Lamination Cycles” diagram (Sharinn Ex. 11, OSB at 6, <u>see</u> diagram).</p> <p><i>This reference does not teach applying a second pressure at the lamination temperature for encapsulating the electronic element</i></p> <ul style="list-style-type: none"> • See ‘207 patent, claim 16, element (c)(ii). <p><i>The second pressure taught by this reference is applied after encapsulation of the electronic element</i></p> <ul style="list-style-type: none"> • See ‘207 patent, claim 16, element (c)(ii).

	1987 Oakwood Sales Brochure	“uniformly across said core” – “Precise, uniform pressure distribution over the whole platen eliminating pressure losses at the edges and corners.” (Sharinn Ex. 11, OSB at 1).
	1987 Oakwood Series 6 Brochure	<p>“encapsulating said at least one electronic element” – during lamination inductive codings are enclosed by second opaque plastic layer and substrate (Sharinn Ex. 10, OS6B at 4, <u>see illustration</u>).</p> <p><i>The illustration cited in this reference does not teach a process of encapsulating the electronic element</i></p> <ul style="list-style-type: none"> • See ‘207 patent, claim 16, element (c)(ii).
(iii) subsequently cooling said core in conjunction with the concurrent application of a third pressure uniformly across said core, said core including and upper and lower surfaces.	1987 Oakwood Sales Brochure	“cooling . . . in conjunction with the concurrent application of a third pressure” – “P.V.C. Temp.” and “P.V.C. Press.” curves of the “Typical Lamination Cycles” diagram (Sharinn Ex. 11, OSB at 6, <u>see diagram</u>).
	1987 Oakwood Series 6 Brochure	“uniformly across said core” – “Precise, uniform pressure distribution over the whole platen eliminating pressure losses at the edges and corners.” (Sharinn Ex. 11, OSB at 1).
16. <i>The method as recited in claim 15 wherein said first and second core layers are devoid of any appreciable cutouts.</i>	1987 Oakwood Series 6 Brochure	<p>“first and second core layers are devoid of any appreciable cutouts” – second opaque plastic layer and substrate beneath the inductive codings (Sharinn Ex. 10, OS6B at 4, <u>see illustration</u>).</p> <p><i>This reference does not teach a configuration where core layers are devoid of cutouts</i></p> <ul style="list-style-type: none"> • See ‘207 patent, claim 17.

Invalidity Claim Chart
in Support of
Oberthur's Summary Judgment Motion for Invalidity

U.S. Pat. No. 6,514,367

- Reference Key:**
- 1987 Oakwood Series 6 Brochure ("OS6B")
 - 1987 Oakwood Sales Brochure ("OSB")
 - 1991 Oakwood Series 6 Instruction Manual ("OIM")

<p style="text-align: center;"><u>Claims</u></p> <p style="text-align: center;">(missing claim elements are highlighted in green)</p>	<p style="text-align: center;"><u>Prior Art</u></p>	<p style="text-align: center;"><u>Application of Prior Art</u></p> <p style="text-align: center;">(missing claim elements are highlighted in green)</p>
<p>1. I provide for incorporating at least one electronic element in the manufacture of a plastic card, comprising the steps of</p>	<p>1987 Oakwood Series 6 Brochure</p>	<p>"electronic element" – inductive codings or microchip (Sharinn Ex. 10, OS6B at 4, see illustration and text under heading "Machine Reading Applications").</p> <p>This reference does not disclose an electronic element.</p> <p>See the '207 patent, claim 1, preamble for explanation.</p> <p>This reference does not teach how to incorporate an electronic element in the manufacture of a plastic card</p> <ul style="list-style-type: none"> • See '207 patent, claim 1.
<p>(a) providing first and second plastic core sheets:</p>	<p>1987 Oakwood Series 6 Brochure</p>	<p>"first and second plastic core sheets" - second opaque plastic layer and substrate beneath inductive codings (Sharinn Ex. 10, OS6B at 4, see illustration).</p>
<p>(b) positioning said at least one electronic element in the interior of a non-electronic substrate directly between said</p>	<p>1987 Oakwood Series 6 Brochure</p>	<p>"positioning ..." – inductive codings are illustrated as being positioned between second opaque plastic layer and substrate (Sharinn Ex. 10, OS6B at 4, see illustration).</p>

<p><i>first and second plastic core sheets to form a core, said plastic core sheets defining a pair of inner and outer surfaces of said core;</i></p>	<p>1987 Oakwood Series 6 Brochure</p>	<p>“in the absence of a non-electronic carrier” – inductive codings are illustrated with no protection (Sharinn Ex. 10, OS6B at 4, <u>see illustration</u>).</p> <p><i>This reference does not teach positioning an electronic element “in the absence of a non-electronic carrier”</i></p> <ul style="list-style-type: none"> • There is no evidence that the illustration cited in this reference does not include a cavity or protective layer for protecting the inductive codings from heat and pressure during the lamination process. • The conclusory statements provided by Oberthur are not sufficient to show that this illustration discloses this claim element. • The picture alone is insufficient to enable a person having ordinary skill in the art to laminate a card in such a way.
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	1987 Oakwood Series 6 Brochure	<p>“directly” – inductive codings are in immediate physical contact with second opaque plastic layer and substrate (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration).</p> <p><i>This reference also does not teach positioning an electronic element “directly between said first and second plastic core sheets”</i></p> <ul style="list-style-type: none"> • Again, there is no evidence to show that the illustration cited in this reference positions the inductive codings directly between plastic core sheets. • The conclusory statements provided by Oberthur are not sufficient to show that this illustration discloses this claim element. • The picture alone is insufficient to enable a person having ordinary skill in the art to laminate a card in such a way.
	1987 Oakwood Series 6 Brochure	<p>“core” – second opaque plastic layer, inductive codings and substrate form the “core” (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration).</p>
	1987 Oakwood Series 6 Brochure	<p>“a pair of inner and outer surfaces of said core” – outside surface of second opaque plastic layer and outside surface of substrate are illustrated (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration).</p>
<i>(c) positioning said core in a laminator apparatus, and subjecting said core to a heat and pressure cycle, said heat and pressure cycle comprising the steps of:</i>	1987 Oakwood Series 6 Brochure	<p>“positioning said core in a laminator apparatus” – second opaque plastic layer, inductive codings and substrate can be positioned in the Series 6 laminator: “Many of the more sophisticated cards are made possible due only to the flexibility of the heat and pressure system which is a major feature of the Series 6 Laminators.” (Sharinn Ex. 10, OS6B at 3, 4 <u>see</u> illustration).</p>

	1987 Oakwood Series 6 Brochure	“heat and pressure cycle” – “[h]eat and pressure are applied” to second opaque plastic layer, inductive codings and substrate (Sharinn Ex. 10, OS6B at 3).
(i) <i>heating said core for a first period of time;</i>	1987 Oakwood Sales Brochure	<p>“heating said core for a first period of time” – “P.V.C. Temp.” curve of the “Typical Lamination Cycles” diagram (Sharinn Ex. 11, OSB at 6, <u>see</u> diagram).</p> <p><i>This reference teaches applying a pressure phase first.</i></p> <ul style="list-style-type: none"> • See ‘207 patent, claim 1, element (c)(i).
(ii) <i>applying a first pressure to said core for a second period of time, such that said at least one electronic element is encapsulated by said core;</i>	1987 Oakwood Sales Brochure	<p>“applying a first pressure ... for a second period of time” – “P.V.C. Press.” curve of the “Typical Lamination Cycles” diagram (Sharinn Ex. 11, OSB at 6, <u>see</u> diagram).</p> <p><i>This reference teaches applying a pressure phase first, then applying a heating phase.</i></p> <p><i>This reference also teaches encapsulating an electronic element during the heating phase, not the pressure phase.</i></p> <ul style="list-style-type: none"> • See ‘207 patent, claim 1, element (c)(ii).
(iii) <i>cooling said core while applying a second pressure to said core, the second pressure being at least 10% greater than the first pressure; and</i>	1987 Oakwood Sales Brochure	<p>“cooling ... while applying a second pressure” – “P.V.C. Temp.” and “P.V.C. Press.” curves of the “Typical Lamination Cycles” diagram (Sharinn Ex. 11, OSB at 6, <u>see</u> diagram).</p>

	1987 Oakwood Sales Brochure	<p>“said second pressure being at least 10% greater than said first pressure” – “P.V.C. Press.” curve of the “Typical Lamination Cycles” diagram (Sharinn Ex. 11, OSB at 6, <u>see</u> diagram).</p> <p><i>This reference fails to indicate whether the second pressure is at least 10% greater than said first pressure</i></p> <ul style="list-style-type: none"> • See ‘207 patent, claim 7.
<p>4. The process for incorporating at least one electronic element in the manufacture of a plastic card as recited in claim 1, <i>wherein said first and second plastic core sheets are made from a material selected from the group consisting of polyvinyl chloride, polyester, and acrylonitrile-butadiene-styrene</i>, each of said sheets having a thickness in the range of 0.007 to 0.024 inch.</p>	1987 Oakwood Series 6 Brochure	<p>“polyvinyl chloride” – second opaque plastic layer and substrate beneath inductive codings are made of plastic (P.V.C.) (Sharinn Ex. 10, OS6B at 3, 4, <u>see</u> illustration).</p> <p><i>This reference fails to teach a process where the plastic core sheets are made of a material selected from the group consisting of polyvinyl chloride, polyester, and acrylonitrile-butadiene</i></p> <p><i>This reference fails to disclose a thickness range of plastic sheets to be used</i></p>
<p>7. A process as recited in claim 1 having a further step following step(c), said step comprising: positioning a layer of overlamine film on at least one of said surfaces of said core, positioning said overlamine film and said core in a laminator apparatus and laminating said layer of overlamine film to said core in said laminator to thereby form a sheet of plastic card stock.</p>	1987 Oakwood Series 6 Brochure	<p>“overlamine film” – second opaque plastic layer, inductive codings, substrate and bottom plastic opaque layer can be positioned in the Series 6 laminator (Sharinn Ex. 10, OS6B at 3, 4, <u>see</u> illustration).</p>
	1991 Oakwood Instruction Manual	<p>OIM at 1 ¶ 1 (“Combine some of these components with customized printed core and overlay materials...”).</p>
<p>8. The process of claim 7, further comprising the step of coating said at least one</p>	1991 Oakwood Instruction Manual	<p>“coating ... with a layer of ink” – “Combine some of these components with customized printed core and overlay materials ...”</p>

surface of said core with a layer of ink prior to positioning said overlamine film on said at least one surface of said core.		(Sharinn Ex. 12, OIM at 1 ¶ 1).
9. The process for incorporating at least one electronic element in the manufacture of a plastic card as recited in claim 1, wherein said core is heated in step (c)(i) to a temperature in the range of 275.degree. F. to 400.degree. F. and said first period of time is at least five (5) minutes	1991 Oakwood Instruction Manual	"temperature in the range of 275.degree. F. to 400.degree. F." – unpatentable modification of prior art temperatures ("LAMINATING TEMPERATURE 90 – 200 DEGREES C" (Sharinn Ex. 12, OIM at 6, ¶ 3.3B)).
	1987 Oakwood Sales Brochure	"said first period of time is at least five (5) minutes" - "P.V.C. Temp." curve of the "Typical Lamination Cycles" diagram and horizontal axis of diagram indicating time in minutes ("Mins") (Sharinn Ex. 11, OSB at 6, <u>see</u> diagram). <i>This reference fails to identify the length of time at which the temperature is held</i> • See '207 patent, claim 8.
12. The process for incorporating at least one electronic element in the manufacture of a plastic card as recited in claim 1, wherein a coating step is carried out on at least one surface of said core utilizing a coating technique selected from the group consisting of silk screen printing, offset printing, letterpress printing, screen printing, roller coating, spray printing, and litho-printing.	1991 Oakwood Instruction Manual	"coating technique selected from the group consisting of ..." – "Combine some of these components with customized printed core and overlay materials" (Sharinn Ex. 12, OIM at 1, ¶ 1). <i>This reference fails to disclose a process where the core is coated using a coating technique selected from the group consisting of silk screen printing, offset printing, letterpress printing, screen printing, roller coating, spray printing, and litho-printing.</i>
16. The process for incorporating at least one electronic element in the manufacture of a plastic card as recited in claim 1, wherein said at least one electronic element is a micro-chip and an	1987 Oakwood Series 6 Brochure	"micro-chip and an associated circuit board antenna or an associated wire antenna" – Sharinn Ex. 10, OS6B at 4, <u>see</u> text under heading "Machine Reading Applications". <i>This reference fails to disclose a process as recited in claim 1, wherein electronic</i>

associated circuit board antenna or an associated wire antenna.		element is a micro-chip and an associated wire antenna. This reference fails to disclose a process as recited in claim 1, "wherein electronic element is a micro-chip and an associated circuit board antenna."
17. The process for incorporating at least one electronic element in the manufacture of a plastic card as recited in claim 1, wherein said at least one electronic element is a read/write integrated chip and an associated antenna	1987 Oakwood Series 6 Brochure	<p>"read/write integrated chip and an associated antenna" – Sharinn Ex. 10, OS6B at 4, <u>see</u> text under heading "Machine Reading Applications".</p> <p>This reference fails to disclose a process as recited in claim 1, "wherein electronic element is a read/write chip and an associated antenna."</p>
19. The process according to claim 1, wherein said core is heated in step (c)(ii).	1987 Oakwood Sales Brochure	"core is heated in step (c)(ii)" – "P.V.C. Temp." curve of the "Typical Lamination Cycles" diagram (Sharinn Ex. 11, OSB at 6, <u>see</u> diagram).
20. A process for incorporating at least one electronic element in the manufacture of a plastic card, comprising the steps of:	1987 Oakwood Series 6 Brochure	<p>"electronic element" – inductive codings or microchip (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration and text under heading "Machine Reading Applications").</p> <p>This reference does not disclose an electronic element.</p> <ul style="list-style-type: none"> • See the '207 patent, claim 1, preamble. <p>This reference does not teach how to incorporate an electronic element in the manufacture of a plastic card</p> <ul style="list-style-type: none"> • See '207 patent, claim 1.
(a) providing first and second plastic core sheets;	1987 Oakwood Series 6 Brochure	"first and second plastic core sheets" - second opaque plastic layer and substrate beneath inductive codings (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration).

<p>(b) positioning said at least one electronic element in the absence of a non-electronic carrier directly between said first and second plastic core sheets to form a core, said plastic core sheets defining a pair of inner and outer surfaces of said core;</p>	<p>1987 Oakwood Series 6 Brochure</p>	<p>“positioning ...” – inductive codings are illustrated as being positioned between second opaque plastic layer and substrate (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration).</p>
	<p>1987 Oakwood Series 6 Brochure</p>	<p>“in the absence of a non-electronic carrier” – inductive codings are illustrated with no protection (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration).</p> <p>This reference does not teach positioning an electronic element “in the absence of a non-electronic carrier”</p> <ul style="list-style-type: none"> • There is no evidence that the illustration cited in this reference does not include a cavity or protective layer for protecting the inductive codings from heat and pressure during the lamination process. • The conclusory statements provided by Oberthur are not sufficient to show that this illustration discloses this claim element. • The picture alone is insufficient to enable a person having ordinary skill in the art to laminate a card in such a way.

	1987 Oakwood Series 6 Brochure	<p>“directly” – inductive codings are in immediate physical contact with second opaque plastic layer and substrate (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration).</p> <p><i><u>This reference also does not teach positioning an electronic element “directly between said first and second plastic core sheets”</u></i></p> <ul style="list-style-type: none"> • Again, there is no evidence to show that the illustration cited in this reference positions the inductive codings directly between plastic core sheets. • The conclusory statements provided by Oberthur are not sufficient to show that this illustration discloses this claim element. • The picture alone is insufficient to enable a person having ordinary skill in the art to laminate a card in such a way.
	1987 Oakwood Series 6 Brochure	<p>“core” – second opaque plastic layer, inductive codings and substrate form the “core” (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration).</p>
	1987 Oakwood Series 6 Brochure	<p>“a pair of inner and outer surfaces of said core” – outside surface of second opaque plastic layer and outside surface of substrate are illustrated (Sharinn Ex. 10, OS6B at 4, <u>see</u> illustration).</p>

(c) positioning said core in a laminator apparatus, and subjecting said core to a heat and pressure cycle, said heat and pressure cycle comprising the steps of:	1987 Oakwood Series 6 Brochure	“positioning said core in a laminator apparatus ...” – second opaque plastic layer, inductive codings and substrate can be positioned in the Series 6 laminator: “Many of the more sophisticated cards are made possible due only to the flexibility of the heat and pressure system which is a major feature of the Series 6 Laminators.” (Sharinn Ex. 10, OS6B at 3, 4 <u>see</u> illustration).
	1987 Oakwood Series 6 Brochure	“heat and pressure cycle” – “[h]eat and pressure are applied” to second opaque plastic layer, inductive codings and substrate (Sharinn Ex. 10, OS6B at 3).
(i) heating said core for a first period of time:	1987 Oakwood Sales Brochure	<p>“heating said core for a first period of time” – “P.V.C. Temp.” curve of the “Typical Lamination Cycles” diagram (Sharinn Ex. 11, OSB at 6, <u>see</u> diagram).</p> <p><u>This reference teaches applying a pressure phase first</u></p> <ul style="list-style-type: none"> • See ‘207 patent, claim 1, element (c)(i).
(ii) applying a first pressure to said core for a second period of time such that said at least one electronic element is encapsulated by said core:	1987 Oakwood Sales Brochure	<p>“applying a first pressure ... for a second period of time” – “P.V.C. Press.” curve of the “Typical Lamination Cycles” diagram (Sharinn Ex. 11, OSB at 6, <u>see</u> diagram).</p> <p><u>This reference teaches applying a pressure phase first, then applying a heating phase</u></p> <ul style="list-style-type: none"> • See ‘207 patent, claim 1, element (c)(ii) <p><u>This reference also teaches encapsulating an electronic element during the heating phase, not during the pressure phase</u></p> <ul style="list-style-type: none"> • See ‘207 patent, claim 1, element (c)(ii).

(iii) cooling said core while applying a second pressure to said core, <u>the second pressure being at least 10% greater than the first pressure.</u>	1987 Oakwood Sales Brochure	“cooling ... while applying a second pressure” – “P.V.C. Temp.” and “P.V.C. Press.” curves of the “Typical Lamination Cycles” diagram (Sharinn Ex. 11, OSB at 6, <u>see</u> diagram).
	1987 Oakwood Sales Brochure	<p>“said second pressure being at least 10% greater than said first pressure” – “P.V.C. Press.” curve of the “Typical Lamination Cycles” diagram (Sharinn Ex. 11, OSB at 6, <u>see</u> diagram).</p> <p><u>This reference fails to indicate whether the second pressure is at least 10% greater than said first pressure.</u></p> <ul style="list-style-type: none"> • See ‘207 patent, claim 7.